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**TRANSMITTAL MESSAGE/COVER SHEET**

Date: January 21, 2000

**PLEASE DELIVER THE FOLLOWING PAGES TO:**

Name: Examiner G. Cantelmo

Company/Firm: U.S. Patent and Trademark Office

Fax No.: 703-305-6078

Pages: (including this sheet) - 11

Re: U.S. Patent Appln. No. 08/902,331
Filed: July 29, 1997 - Title: Magnetron Atommization Source And Method of Use
Our Ref.: 622/42052DV

From: James F. McKeown

Firm: Evenson, McKeown, Edwards & Lenahan, P.L.L.C.

Fax No.: (202) 628-8844

MESSAGE: Attached is a proposed After-Final Response. Please advise if you have any objections or changes. Jim McKeown

DRAFT

Attorney Docket: 622/42052DV
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: PIUS GRUENENFELDER ET AL.

Serial No.: 08/902,331 Group Art Unit: 1753

Filed: JULY 29, 1997 Examiner: Cantelmo, G.

Title: MAGNETRON ATOMIZATION SOURCE AND METHOD OF USE

**AFTER-FINAL RESPONSE**
**EXPEDITED HANDLING REQUESTED**

*VIA FACSIMILE - 703-305-6078*

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

The following is responsive to the Office Action mailed April 9, 1999.

**IN THE SPECIFICATION**

Page 10, between lines 14 and 15 insert the following paragraph.

--The above-described relationship between $d_{113}$ (the maximal distance of the new atomization surface to the disk surface to be coated) and $r_{13}$ (the radius of the circular workpiece disk) allow a target taper to be defined by the difference between $D_{112}$ and the distance $a_1$ which represents the distance spanned by an interior surface $F_q$, i.e. $co=d_{13}-a$. The disclosed relationship and the upper and lower values of $d_c$ can thus be represented by the following:

$$0.2\Phi_{13} \leq d_{113} \leq 0.5\Phi_{13} \qquad (1)$$